

La vita è  
~~bella~~  
(e invece l'è dura)

$$y = \left| -3 + \sqrt{25 - x^2} \right| \quad \sqrt{f(x)} \geq g(x)$$

$$-3 + \sqrt{25 - x^2} \geq 0 \quad \sqrt{25 - x^2} \geq 3$$

$$\begin{cases} y \geq 0 \\ 25 - x^2 \geq 9 \\ 25 - x^2 \geq 0 \end{cases} \quad \begin{cases} y \geq 0 \\ -x + 16 \geq 0 \\ -x^2 + 25 \geq 0 \end{cases}$$

$-4 \leq x \leq 4$

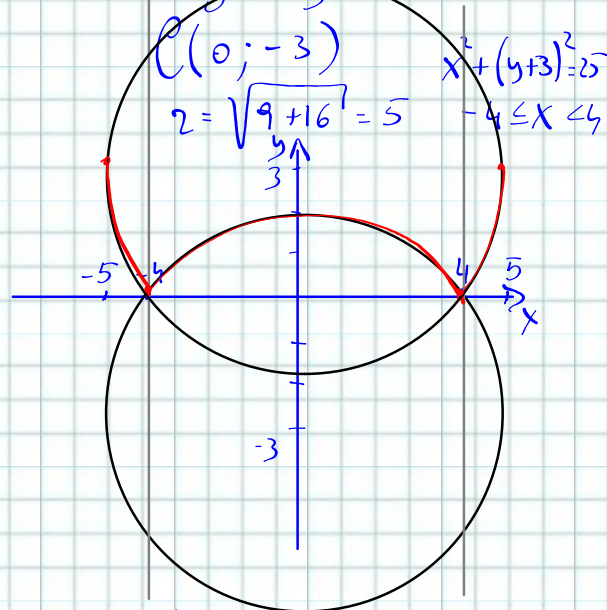
$$\begin{cases} y = 3 + \sqrt{25 - x^2} & -4 \leq x < 4 \cup y \geq 0 \cup y \geq -3 \\ y = 3 - \sqrt{25 - x^2} & x < -4 \cup x \geq 4 \cup y \geq 0 \cup y \leq 3 \end{cases}$$

$$\textcircled{1} \quad (y+3)^2 = \sqrt{25-x^2} \quad -4 \leq x < 4$$

$$\textcircled{2} \quad \sqrt{25-x^2} = (3-y)^2 \quad x < -4 \cup x \geq 4$$

$$\textcircled{1} \quad x^2 + 9 + 6y + x^2 - 25 = 0 \quad -4 \leq x < 4$$

$$x^2 + y^2 + 6y - 16 = 0$$



$$\textcircled{2} \quad 25 - x^2 = (3-y)^2 \quad x < -4 \cup x \geq 4$$

$$x^2 + y^2 - 6y - 16 = 0$$

$$C(0; 3) \quad r = \sqrt{9+16} = 5$$

$$x^2 + (y-3)^2 = 25$$

$$\begin{matrix} y \geq 0 & y \geq 0 \\ 3-y \geq 0 & y \leq 3 \end{matrix}$$

$$y = |-3 + \sqrt{25 - x^2}|$$

$$\left\{ \begin{array}{l} y \geq 0 \\ y = |-3 + \sqrt{25 - x^2}| \\ 25 - x^2 \geq 0 \end{array} \right.$$

$$y \geq 0$$

$$\left\{ \begin{array}{l} y = |-3 + \sqrt{25 - x^2}| \\ 25 - x^2 \geq 0 \end{array} \right.$$

$$y = -3 + \sqrt{25 - x^2}$$

$$-5 \leq x \leq 5$$

